

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



540 551

(43) International Publication Date
29 July 2004 (29.07.2004)

PCT

(10) International Publication Number
WO 2004/062556 A2

(51) International Patent Classification⁷: **A61K**

(21) International Application Number:
PCT/EP2004/000162

(22) International Filing Date: 13 January 2004 (13.01.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
A 36/2003 14 January 2003 (14.01.2003) AT
A 1464/2003 17 September 2003 (17.09.2003) AT

(71) Applicant and

(72) Inventor: **MATTNER, Frank** [DE/AT]; Krottenbach-
strasse 267, A-1190 Vienna (AT).

(74) Agent: **SONN & PARTNER PATENTANWAELTE**;
Riemergasse 14, A-1010 Wien (AT).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *without international search report and to be republished
upon receipt of that report*

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: METHODS FOR PREVENTING AND TREATING ALZHEIMER'S DISEASE (AD)

(57) Abstract: The invention relates to the use of a compound comprising the following amino acid sequence $X_1X_2X_3X_4X_5X_6$, wherein X_1 is an amino acid, except of C, X_2 is an amino acid, except of C, X_3 is an amino acid, except of C, X_4 is an amino acid, except of C, X_5 is an amino acid, except of C, X_6 is an amino acid, except of C, and wherein $X_1X_2X_3X_4X_5X_6$ is not DAEFRH, said compound having a binding capacity to an antibody being specific for the natural N-terminal AB42 sequence DAEFRH, and 5-mers thereof having a binding capacity to said antibody being specific for the natural N-terminal AB42 sequence DAEFRH, for the preparation of a vaccine for Alzheimer's disease.

WO 2004/062556 A2